NEW SOURCE CONSTRUCTION
and
MINOR SOURCE OPERATING PERMIT
(MSOP)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

LaSalle Steel Company
1412 150th Street
Hammond, Indiana 46327

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: **MSOP 089-11518-00220**	
Issued by: _____ Ronald L. Novak, Director Hammond Department of Environmental Management Air Pollution Control Division	Issuance Date:

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM)-Office of Air Management (OAM) and the Hammond Department of Environmental Management (HDEM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary cold finishing of steel shapes operation.

Authorized Individual:	Robert L. Dubbert, Manager, Environmental Compliance
Source Address:	1412 150th Street, Hammond, Indiana 46327
Mailing Address:	(same as above)
Phone Number:	(219)853-6233
SIC Code:	3316 – Cold Finishing of Steel Shapes
County Location:	Lake
County Status:	Attainment/Unclassifiable for CO and NO_2, Attainment for Pb, Primary Nonattainment for SO2, Moderate Nonattainment for PM10, and Severe Nonattainment for VOC and NOx.
Source Status:	Minor Source Operating Permit Minor Source, under PSD Rules Major Source Emission Offset Rules

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

(a) One (1) Pangborn Mechanical Coil Descaler, with a maximum descaling capacity of 15 tons of steel coils per hour. Emissions to the atmosphere of oxide scale and steel shot dust are controlled by a Tenkay-Farr Cartridge Dust Collection System and a high performance Riga-Flo 200 Filter Collector which exhausts at one (1) stack, identified as S-2. (Insignificant Activity)

(b) One (1) Fennel Corporation No. 3 Roller Hearth Furnace, with a maximum design capacity of 8.0 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting at one (1) stack, identified as S-3.

(c) Four (4) Wire Bay Space Heaters, three (3) with a maximum design capacity of 1.6 MMBtu/hr heat input and one (1) with a maximum design capacity of 0.35 MMBtu/hr heat input (5.15 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-4. (Insignificant Activity)

(d) One (1) Wheelabrator No. 1 (East) Shot Blasting Operation and One (1) Wheelabrator No. 2 (West) Shot Blasting Operation, maximum rate of steel bars processed through each unit is 15 Tons/hr. Particulate emissions of oxide scale and steel shot dust are controlled by a Mikropul Horizontal Cartridge Filter System which exhausts at one (1) stack, identified as S-5.

This Filter System is common to both Wheelabrator No. 1 (East) and Wheelabrator No. 2 (West) Shot Blasting Operations.

(e) One (1) No. 11 Furnace with a maximum design rate of 1.7085 Tons/hr. Particulate emissions are controlled by a Uni-wash dust collector efficient in eliminating oily smoke, stack identified as S-6. (Insignificant Activity)

(f) One (1) Mammoth Space Heater, Shipping Building East, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-7. (Insignificant Activity)

(g) One (1) Mammoth Space Heater, Shipping Building West, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-8. (Insignificant Activity)

(h) Three (3) Space Heaters, Building No. 70, with a combined maximum design capacity of 1.35 MMBtu/hr heat input, natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-9. (Insignificant Activity)

(i) Two (2) Dayton Space Heaters, Building No. 60, each with a maximum design capacity of 0.35 MMBtu/hr heat input (0.70 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-10. (Insignificant Activity)

(a) Nine (9) Space Heat Units:
(1) One (1) Dravo, Building No. 41, with a maximum design capacity of 1.875 MMBtu/hr heat input.
(2) One (1) Dayton, located in the Cutting Fluid Storage Area, with a maximum design capacity of 0.350 MMBtu/hr heat input.
(3) One (1) Dayton and One (1) Modine, located in the Storeroom, with a maximum design capacity of 0.350 and 0.2 MMBtu/hr heat input, respectively.
(4) One (1) Armstrong, located in the Oil Storage Room, with a maximum design capacity of 0.09 MMBtu/hr heat input.
(5) One (1) Dayton, located in the Mfg. Engr. Storeroom, with a maximum design capacity of 0.125 MMBtu/hr heat input.
(6) One (1) Engr Bldg Reznor Furnace, with a maximum design capacity of 0.4 MMBtu/hr heat input.
(7) One (1) East and One (1) West Penthouse Boiler (Basmor and American Standard), with a maximum design capacity of 0.875 MMBtu/hr and 0.7 MMBtu/hr, respectively.

All nine space heat units are natural gas-fired only. Stack identified as S-11. (Insignificant Activity)

(k) One (1) Coil Drawing Line No. 5, which includes uncoiling, pointing, shotblasting, drawing, cutting, straightening, polishing, defect testing, and bundling of steel coils. This line includes an in-line shotblaster with a maximum process rate of 0.04 Tons/hr of steel shot used. Particulate emissions from the shotblaster are controlled by a Torit cartridge-type dust collector. Stack identified as S-15. (Insignificant Activity)

(l) One (1) Cold Finished Steel Bars from Hot Rolled Bar Process, which includes Roller Hearth Furnaces No. 1 and No. 2 and Kemp Bar Heating Furnaces No. 3 and No. 7. The total combined maximum design capacity is 48 MMBtu/hr heat input, using no control equipment and natural gas-fired only.

(a) One (1) Screw Hearth Line, including one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace, each with a maximum design capacity of 17.145 MMBtu/hr, 12.42 MMBtu/hr, and 1 MMBtu/hr heat input, respectively, natural gas-fired, using no control equipment and exhausting inside the building, stacks identified as S-12, S-13, and S-14.

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is not required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is not an affected source under Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3);

(b) It is a major source as defined in 326 IAC 2-7-1(22);

(c) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

LaSalle Steel Company is considered a major source for Nitrogen Oxides (NOx) (>25 TPY, Lake & Porter Counties), however, the source is currently exempt from the requirements of the Title V Operation Permits program due to the NOx requirement waiver (Section 182(f) of the Clean Air Act) which increased the major stationary source threshold level for Nitrogen Oxides NOx in severe ozone nonattainment areas (Lake and Porter) as defined in 326 IAC 2-7-1(22)(C)(i)(CC) from 25 tons per year to 100 tons per year.

SECTION B GENERAL CONSTRUCTION CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]
This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions
Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.5 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled “Local Agency Requirement”, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Local Agency Requirement

Pursuant to 326 IAC 2-6.1 (Minor Source Operating Permit), this document shall also become the minor source operating permit and local operating permit, when prior to start of operation (including testing and de-bugging), the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the HDEM.

(1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to HDEM.

(2) If the Affidavit of Construction does not verify that the facilities covered in this Construction Permit were constructed as proposed in the application, then the Permittee shall receive an Operation Permit Validation Letter from the Director of the HDEM prior to beginning operation of the facilities.

(b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

(c) Upon receipt of the Operation Permit Validation Letter from the Director of the HDEM, the Permittee shall attach it to this document.

(d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees)**.**

(e) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in the validation letter. If IDEM-OAM and HDEM upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

(a) The total source potential to emit of CO and NOx (as itself, not as an ozone precursor) is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.

(b) Any change or modification which may increase potential to emit of CO or NOx to 250 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM-OAM and HDEM prior to making the change.

C.2 Emission Offset Major Source Status [326 IAC 2-3]

(a) The total source potential to emit of NOx (as a precursor to ozone) is greater than 25 tons per year. Therefore, the requirements of 326 IAC 2-3 (Emission Offset) may apply.

(a) Any increase in actual emissions from a particular physical change or change in the method of operation along with any increase or decrease in actual emissions accumulated on a pollutant specific basis over the past five years resulting in a significant net emissions increase or the potential of a source to emit NOx at a rate of 25 tons per year or greater, shall subject the source to the requirements of Emission Offset pursuant to 326 IAC 2-3, before such change may occur.

(a) Any change or modification which may increase potential to emit 10 tons per year of any single hazardous air pollutant, 25 tons per year of any combination of hazardous air pollutants, or 100 tons per year of any other regulated pollutant from this source, shall cause this source to be considered a major source under Part 70 Permit Program, 326 IAC 2-7, and shall require approval from IDEM-OAM and HDEM prior to making the change.

C.3 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM-OAM and HDEM upon request and shall be subject to review and approval by IDEM-OAM and HDEM. IDEM-OAM and HDEM may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.4 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAM and HDEM within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.5 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM-OAM, HDEM, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;

(c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.6 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM-OAM, Permits Branch and HDEM, within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM-OAM and HDEM shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.7 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM and HDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.8 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.9 Fugitive Dust Emissions [326 IAC 6-4]
The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.10 Fugitive Dust Emissions [326 IAC 6-1-11.1]

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%).

C.11 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]
Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the source's permit application submitted on October 26, 1999. The controlling of any dust from the unpaved roadways shall be controlled by wetting the area with water per the source's permit application.

Testing Requirements

C.12 Performance Testing [326 IAC 3-6]

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM-OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above addresses so that it is received at least two weeks prior to the test date.

(b) All test reports must be received by IDEM-OAM and HDEM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM-OAM and HDEM, if the source submits to IDEM-OAM and HDEM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Compliance Monitoring Requirements

C.13 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.14 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.15 Pressure Gauge Specifications [326 IAC 2-1.1-11]

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale.

C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 1-6]

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRPs shall be submitted to IDEM-OAM and HDEM upon request and shall be subject to review and approval by IDEM-OAM and HDEM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :

(A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

(B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

(b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

(c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:

(1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;

(3) An automatic measurement was taken when the process was not operating; or

(4) The process has already returned to operating within “normal” parameters and no response steps are required.

(d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM-OAM and HDEM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM-OAM or HDEM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM-OAM and HDEM within thirty (30) days of receipt of the notice of deficiency. IDEM-OAM and HDEM reserve the authority to use enforcement activities to resolve noncompliant stack tests.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM- OAM and HDEM that retesting in one-hundred and twenty (120) days is not practicable, IDEM-OAM and HDEM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

The documents submitted pursuant to this condition do not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.18 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAM and HDEM, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.19 Annual Emission Statement [326 IAC 2-6]

(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

(1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

(2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.

(b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

(c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.20 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM and HDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.21 General Record Keeping Requirements [326 IAC 2-6.1-2]

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM-OAM or HDEM representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or HDEM makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or HDEM within a reasonable time.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.22 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Any reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.

(c) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.23 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Management and HDEM stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than April 15 of each year to:

Compliance Data Section, Office of Air Management
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Pangborn Mechanical Coil Descaler, with a maximum descaling capacity of 15 tons of steel coils per hour. Emissions to the atmosphere of oxide scale and steel shot dust are controlled by a Tenkay-Farr Cartridge Dust Collection System and a high performance Riga-Flo 200 Filter Collector which exhausts at one (1) stack, identified as S-2.

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-1-2(a)]

Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the Pangborn Mechanical Descaler shall be limited to 0.03 grain per dry standard cubic foot.

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this emissions unit and any control device.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM or HDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.4 Particulate Matter (PM)

Pursuant to OP# 01773, issued on April 7, 2000, theTenkay-Farr Cartridge Dust Collection System and Riga-Flo 200 Filter Collector for PM control shall be in operation and control emissions from the Pangborn Mechanical Coil Descaler at all times when the Pangborn Mechanical Coil Descaler is in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.5 Visible Emissions Notations

(a) Daily visible emission notations of the Pangborn Mechanical Coil Descaler stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

D.1.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the collector used in conjunction with the Pangborn Mechanical Coil Descaler, at least once weekly when the Pangborn Mechanical Coil Descaler is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the collector shall be maintained within the range of 0.5 and 5.5 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C – Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM-OAM, and HDEM and shall be calibrated at least once every six (6) months.

D.1.7 Filter Inspections

An inspection shall be performed each calendar quarter of all filters controlling the Pangborn Mechanical Coil Descaler when venting to the atmosphere. A filter inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. All defective filters shall be replaced.

D.1.8 Broken or Failed Filter Detection

In the event that filter failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency.

(b) For single compartment collectors, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.9 Record Keeping and Reporting Requirements

(a) To document compliance with Condition D.1.5, the Permittee shall maintain records of daily visible emission notations of the Pangborn Mechanical Coil Descaler stack exhaust.

(b) To document compliance with Condition D.1.6, the Permittee shall maintain the following:

(1) Weekly records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure.

(2) Documentation of all response steps implemented, per event.

(3) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Fennel Corporation No. 3 Roller Hearth Furnace, with a maximum design capacity of 8.0 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting at one (1) stack, identified as S-3.

Emission Limitations and Standards

D.2.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this emissions unit and any control device.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.4 Compliance Monitoring

There are no compliance monitoring requirements applicable to this facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.5 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
Four (4) Wire Bay Space Heaters, three (3) with a maximum design capacity of 1.6 MMBtu/hr heat input and one (1) with a maximum design capacity of 0.35 MMBtu/hr heat input (5.15 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-4.

Emission Limitations and Standards

D.3.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.3.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.3.3 Compliance Monitoring

There are no compliance monitoring requirements applicable to this insignificant facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.3.4 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Wheelabrator No. 1 (East) Shot Blasting Operation and One (1) Wheelabrator No. 2 (West) Shot Blasting Operation, maximum rate of steel bars processed through each unit is 15 Tons/hr. Particulate emissions of oxide scale and steel shot dust are controlled by a Mikropul Horizontal Cartridge Filter System which exhausts at one (1) stack, identified as S-5.

This Filter System is common to both Wheelabrator No. 1 (East) and Wheelabrator No. 2 (West) Shot Blasting Operations.

Emission Limitations and Standards

D.4.1 Particulate Matter less than 10 microns (PM10) [326 IAC 6-1-10.1(d)]]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions from the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation shall be limited to 0.001 lbs/ton and 0.020 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.4.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these emissions units and any control device.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.4.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM, compliance with the PM10 limit specified in Condition D.4.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.4.4 Particulate Matter (PM)

Pursuant to OP#s 01776 & 01777, issued on April 7, 2000, the Mikropul Horizontal Cartridge Filter System for PM10 control shall be in operation and control emissions from the Wheelabrator No. 1 (East) Shot Blasting Operation or the Wheelabrator No. 2 (West) Shot Blasting Operation at all times that the Wheelabrator No. 1 (East) Shot Blasting Operation or the Wheelabrator No. 2 (West) Shot Blasting Operation are in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.4.5 Visible Emissions Notations

(a) Daily visible emission notations of the Mikropul Horizontal Cartridge Filter System stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

D.4.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the collector used in conjunction with the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation, at least once weekly when the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the collector shall be maintained within the range of 0.5 and 5.5 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C – Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM-OAM, and HDEM and shall be calibrated at least once every six (6) months.

D.4.7 Filter Inspections

An inspection shall be performed each calendar quarter of all filters controlling the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation when venting to the atmosphere. A filter inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. All defective filters shall be replaced.

D.4.8 Broken or Failed Filter Detection

In the event that filter failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency.

(b) For single compartment collectors, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.4.9 Record Keeping and Reporting Requirements

(a) To document compliance with Condition D.4.5, the Permittee shall maintain records of daily visible emission notations of the Mikropul Horizontal Cartridge Filter System stack exhaust.

(b) To document compliance with Condition D.4.6, the Permittee shall maintain the following:

(1) Weekly records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure.

(2) Documentation of all response steps implemented, per event.

(3) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) No. 11 Furnace with a maximum design rate of 1.7085 Tons/hr. Particulate emissions are controlled by a Uni-wash dust collector efficient in eliminating oily smoke, stack identified as S-6.

Emission Limitations and Standards

D.5.1 Particulate Matter less than 10 microns (PM10) [326 IAC 6-1-10.1(d)]]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions from the No. 11 Furnace shall be limited to 0.548 lbs/ton and 0.940 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.5.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this emissions unit and any control device.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.5.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM or HDEM, compliance with the PM10 limit specified in Condition D.5.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.5.4 Particulate Matter (PM)

Pursuant to OP# 01779, issued on April 7, 2000, the Uni-wash dust collector for PM10 control shall be in operation and control emissions from the No. 11 Furnace at all times when the No. 11 Furnace is in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.5.5 Visible Emissions Notations

(a) Daily visible emission notations of the No. 11 Furnace stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

D.5.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the collector used in conjunction with the No. 11 Furnace, at least once weekly when the No. 11 Furnace is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the collector shall be maintained within the range of 0.5 and 5.5 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C – Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM-OAM, and HDEM and shall be calibrated at least once every six (6) months.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.5.7 Record Keeping and Reporting Requirements

(a) To document compliance with Condition D.5.5, the Permittee shall maintain records of daily visible emission notations of the No. 11 Furnace stack exhaust.

(b) To document compliance with Condition D.5.6, the Permittee shall maintain the following:

(1) Weekly records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure.

(2) Documentation of all response steps implemented, per event.

(3) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer’s specifications or its equivalent.

(7) Equipment “troubleshooting” contingency plan.

(c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Mammoth Space Heater, Shipping Building East, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-7.

Emission Limitations and Standards

D.6.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.6.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.6.3 Compliance Monitoring

There are no compliance monitoring requirements applicable to this insignificant facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.6.4 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.7 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Mammoth Space Heater, Shipping Building West, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-8.

Emission Limitations and Standards

D.7.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.7.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.7.3 Compliance Monitoring

There are no compliance monitoring requirements applicable to this insignificant facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.7.4 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.8 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
Three (3) Space Heaters, Building No. 70, with a combined maximum design capacity of 1.35 MMBtu/hr heat input, natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-9.

Emission Limitations and Standards

D.8.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.3 Compliance Monitoring

There are no compliance monitoring requirements applicable to this insignificant facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.4 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.9 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
Two (2) Dayton Space Heaters, Building No. 60, each with a maximum design capacity of 0.35 MMBtu/hr heat input (0.70 MMBtu/hr combined),natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-10.

Emission Limitations and Standards

D.9.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.9.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.9.3 Compliance Monitoring

There are no compliance monitoring requirements applicable to this insignificant facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.9.4 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.10 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
Nine (9)Space Heat Units:
(1) One (1) Dravo, Building No. 41, with a maximum design capacity of 1.875 MMBtu/hr heat input.
(2) One (1) Dayton, located in the Cutting Fluid Storage Area, with a maximum design capacity of 0.350 MMBtu/hr heat input.
(3) One (1) Dayton and One (1) Modine, located in the Storeroom, with a maximum design capacity of 0.350 and 0.2 MMBtu/hr heat input, respectively.
(4) One (1) Armstrong, located in the Oil Storage Room, with a maximum design capacity of 0.09 MMBtu/hr heat input.
(5) One (1) Dayton, located in the Mfg. Engr. Storeroom, with a maximum design capacity of 0.125 MMBtu/hr heat input.
(6) One (1) Engr Bldg Reznor Furnace, with a maximum design capacity of 0.4 MMBtu/hr heat input.
(7) One (1) East and One (1) West Penthouse Boiler (Basmor and American Standard), with a maximum design capacity of 0.875 MMBtu/hr and 0.7 MMBtu/hr, respectively.

All nine space heat units are natural gas-fired only. Stack identified as S-11.

Emission Limitations and Standards

D.10.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.10.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.10.3 Compliance Monitoring

There are no compliance monitoring requirements applicable to this insignificant facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.10.4 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.11 EMISSIONS UNIT OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Coil Drawing Line No. 5, which includes uncoiling, pointing, shotblasting, drawing, cutting, straightening, polishing, defect testing, and bundling of steel coils. This line includes an in-line shotblaster with a maximum process rate of 0.04 Tons/hr of steel shot used. Particulate emissions from the shotblaster are controlled by a Torit cartridge-type dust collector. Stack identified as S-15.

Emission Limitations and Standards

D.11.1 Particulate Matter (PM) [326 IAC 6-1-2(a)]

Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the shotblaster shall be limited to 0.03 grain per dry standard cubic foot.

D.11.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this emissions unit and any control device.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.11.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM or HDEM, compliance with the PM limit specified in Condition D.13.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.11.4 Particulate Matter (PM)

Pursuant to OP# 01767, issued on April 7, 2000, the Torit cartridge-type dust collector for PM control shall be in operation and control emissions from the shotblaster at all times when the shotblaster is in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.11.5 Visible Emissions Notations

(a) Daily visible emission notations of the Coil Drawing Line No. 5 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

D.11.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the collector used in conjunction with the in-line shotblaster, at least once weekly when the in-line shotblaster is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the collector shall be maintained within the range of 0.5 and 5.5 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C – Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM-OAM, and HDEM and shall be calibrated at least once every six (6) months.

D.11.7 Dust Collector Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Coil Drawing Line No. 5 when venting to the atmosphere. A dust collector inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. All defective bags shall be replaced.

D.11.8 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency.

(b) For single compartment collectors, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.11.9 Record Keeping and Reporting Requirements

(a) To document compliance with Condition D.11.5, the Permittee shall maintain records of daily visible emission notations of the Coil Drawing Line No. 5 stack exhaust.

(b) To document compliance with Condition D.11.6, the Permittee shall maintain the following:

(1) Weekly records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure.

(2) Documentation of all response steps implemented, per event.

(3) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

SECTION D.12 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Cold Finished Steel Bars from Hot Rolled Bar Process, which includes Roller Hearth Furnaces No. 1 and No. 2 and Kemp Bar Heating Furnaces No. 3 and No. 7. The total combined maximum design capacity is 48 MMBtu/hr heat input, using no control equipment and natural gas-fired only.

Emission Limitations and Standards

D.12.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.12.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these emissions units and any control device.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.12.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.12.4 Compliance Monitoring

There are no compliance monitoring requirements applicable to this facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.12.5 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

SECTION D.13 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
One (1) Screw Hearth Line, including one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace, each with a maximum design capacity of 17.145 MMBtu/hr, 12.42 MMBtu/hr, and 1 MMBtu/hr heat input, respectively, (30.565 MMBtu/hr combined), natural gas-fired, using no control equipment and exhausting inside the building, stacks identified as S-12, S-13, and S-14.

Emission Limitations and Standards

D.13.1 Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Nitrogen Oxide (NOx), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.13.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these emissions units and any control device.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.13.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.13.4 Compliance Monitoring

There are no compliance monitoring requirements applicable to this facility.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.13.5 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for this facility.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	**LaSalle Steel Company**
Address:	**1412 – 150th Street**
City:	**Hammond, Indiana 46327**
Phone #:	**(219)853-6233**
MSOP #:	**089-11518-00220**

I hereby certify that **LaSalle Steel Company** is _ still in operation.
_ no longer in operation.

I hereby certify that **LaSalle Steel Company** is
_ in compliance with the requirements of **MSOP 089-11518-00220**.
_ not in compliance with the requirements of **MSOP 089-11518-00220**.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
FAX NUMBER - 317 233-5967

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FAX NUMBER – 219 853-6343

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: LaSalle Steel Company PHONE NO. (219)853-6233
LOCATION: (CITY AND COUNTY) Hammond, IN, Lake County
PERMIT NO. 089-11518-00220 AFS PLANT ID: 089-00220 AFS POINT ID: _____ INSP:_____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:_____
_____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

_____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____

_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE)_____
_____
_____

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1.This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

Indiana Department of Environmental Management
Office of Air Management

and

Hammond Department of Environmental Management
Air Pollution Control Division

Technical Support Document (TSD)
for a
New Source Construction and Minor Source Operating Permit

Source Background and Description

Source Name:	**LaSalle Steel Company**
Source Location:	1412 – 150th Street, Hammond, Indiana 46327
County:	Lake
SIC Code:	3316 – Cold Finishing of Steel Shapes
Operation Permit No.:	**089-11518-00220**
Permit Reviewer:	Debra Malone, HDEM

The Hammond Department of Environmental Management has reviewed an application from LaSalle Steel Company relating to the construction and operation of a cold finishing of steel shapes operation*.*

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(a) One (1) Pangborn Mechanical Coil Descaler, with a maximum descaling capacity of 15 tons of steel coils per hour. Emissions to the atmosphere of oxide scale and steel shot dust are controlled by a Tenkay-Farr Cartridge Dust Collection System and a high performance Riga-Flo 200 Filter Collector which exhausts at one (1) stack, identified as S-2. (Insignificant Activity)

(b) One (1) Fennel Corporation No. 3 Roller Hearth Furnace, with a maximum design capacity of 8.0 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting at one (1) stack, identified as S-3.

(c) Four (4) Wire Bay Space Heaters, three (3) with a maximum design capacity of 1.6 MMBtu/hr heat input and one (1) with a maximum design capacity of 0.35 MMBtu/hr heat input (5.15 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-4. (Insignificant Activity)

(d) One (1) Wheelabrator No. 1 (East) Shot Blasting Operation and One (1) Wheelabrator No. 2 (West) Shot Blasting Operation, maximum rate of steel bars processed through each unit is 15 Tons/hr. Particulate emissions of oxide scale and steel shot dust are controlled by a Mikropul Horizontal Cartridge Filter System which exhausts at one (1) stack, identified as S-5.

This Filter System is common to both Wheelabrator No. 1 (East) and Wheelabrator No. 2 (West) Shot Blasting Operations.

(e) One (1) No. 11 Furnace with a maximum design rate of 1.7085 Tons/hr. Particulate emissions are controlled by a Uni-wash dust collector efficient in eliminating oily smoke, stack identified as S-6. (Insignificant Activity)

(f) One (1) Mammoth Space Heater, Shipping Building East, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-7. (Insignificant Activity)

(g) One (1) Mammoth Space Heater, Shipping Building West, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-8. (Insignificant Activity)

(h) Three (3) Space Heaters, Building No. 70, with a combined maximum design capacity of 1.35 MMBtu/hr heat input, natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-9. (Insignificant Activity)

(i) Two (2) Dayton Space Heaters, Building No. 60, each with a maximum design capacity of 0.35 MMBtu/hr heat input (0.70 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-10. (Insignificant Activity)

(j) Nine (9) Space Heat Units:
(1) One (1) Dravo, Building No. 41, with a maximum design capacity of 1.875 MMBtu/hr heat input.
(2) One (1) Dayton, located in the Cutting Fluid Storage Area, with a maximum design capacity of 0.350 MMBtu/hr heat input.
(3) One (1) Dayton and One (1) Modine, located in the Storeroom, with a maximum design capacity of 0.350 and 0.2 MMBtu/hr heat input, respectively.
(4) One (1) Armstrong, located in the Oil Storage Room, with a maximum design capacity of 0.09 MMBtu/hr heat input.
(5) One (1) Dayton, located in the Mfg. Engr. Storeroom, with a maximum design capacity of 0.125 MMBtu/hr heat input.
(6) One (1) Engr Bldg Reznor Furnace, with a maximum design capacity of 0.4 MMBtu/hr heat input.
(7) One (1) East and One (1) West Penthouse Boiler (Basmor and American Standard), with a maximum design capacity of 0.875 MMBtu/hr and 0.7 MMBtu/hr, respectively.

All nine space heat units are natural gas-fired only. Stack identified as S-11. (Insignificant Activity)

(k) One (1) Coil Drawing Line No. 5, which includes uncoiling, pointing, shotblasting, drawing, cutting, straightening, polishing, defect testing, and bundling of steel coils. This line includes an in-line shotblaster with a maximum process rate of 0.04 Tons/hr of steel shot used. Particulate emissions from the shotblaster are controlled by a Torit cartridge-type dust collector. Stack identified as S-15. (Insignificant Activity)

(l) One (1) Cold Finished Steel Bars from Hot Rolled Bar Process, which includes Roller Hearth Furnaces No. 1 and No. 2 and Kemp Bar Heating Furnaces No. 3 and No. 7. The total combined maximum design capacity is 48 MMBtu/hr heat input, using no control equipment and natural gas-fired only.

New Emission Units Requiring Approval

The source also consists of the following new emission units requiring approval:

(m) One (1) Screw Hearth Line, including one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace, each with a maximum design capacity of 17.145 MMBtu/hr, 12.42 MMBtu/hr, and 1 MMBtu/hr heat input, respectively, natural gas-fired, using no control equipment and exhausting inside the building, stacks identified as S-12, S-13, and S-14.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(a) Local Operation Permit #s 01765 – 01779, issued on April 7, 2000.

All conditions from previous approvals were incorporated into this permit.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
S-2	Pangborn Mechanical Coil Descaler	30	2.9	13500	125
S-3	No. 3 Roller Hearth Furnace	50	2.0	2622	120
S-4	4-Wire Bay Space Heaters	60	0.75	12162	90
S-5	No. 1 Wheelabrator Shotblast (East)	45	2.0	3487	95
S-5	No. 2 Wheelabrator Shotblast (West)	45	2.0	3487	95
S-6	No. 11 Furnace	33	2.5	3741	100
S-7	Mammoth Space Heater - East	65	1.5	393	120
S-8	Mammoth Space Heater - West	65	1.5	393	120
S-9	Three (3) Bldg. 70 Space Heaters	55	1.0	1325	110
S-10	Two (2) Bldg. 60 Dayton Space Heaters	55	1.0	3096	110
S-11	Nine (9) Space Heat Units	40	0.75	3040	90
S-12	Hardening Furnace	61	3	13,952	1650
S-13	Tempering Furnace	61	3	8,913	1450
S-14	Reservoir Tank Furnace	8	0.667	251	300
S-15	Coil Drawing Line No. 5	32.5	1.5	4414	158

* Stack S-14 exhausts into Stack S-13.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Director that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on October 26, 1999, with additional information received on March 3 & 27, 2000, April 12 - 14, 2000, May 9, 2000, and June 26 & 29, 2000.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (nine (9) pages).

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit (PTE) is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

PTE for the New Screw Hearth Line which consists of one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace:

Pollutant	Potential To Emit (tons/year)
PM	0.9689
PM-10	0.9689
SO_2	0.0765
VOC	0.7395
CO	10.71
NO_x	12.7499

This table shows potential emissions (before controls) at 8760 for the new Screw Hearth Line.

PTE for the entire source **prior to** the addition of the new Screw Hearth Line:

Pollutant	Potential To Emit (tons/year)
PM	10.3331
PM-10	9.2281
SO_2	0.1755
VOC	1.7645
CO	24.608
NO_x	31.4851

This table shows potential emissions (before controls) at 8760 for the entire source prior to the addition of the new Screw Hearth Line.

PTE for the entire source **after** the addition of the new Screw Hearth Line:

Pollutant	Potential To Emit (tons/year)
PM	12.704
PM-10	11.403
SO_2	0.252
VOC	2.504
CO	35.318
NO_x	44.235

This table shows potential emissions (before controls) at 8760 for the entire source after the addition of the new Screw Hearth Line.

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM-10, SO2 and CO is less than 100 tons per year and VOCs (Lake County) are less than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of Nitrogen Oxides (NOx) is equal to or greater than 25 tons per year. This existing source is subject to the provisions of 326 IAC 6.1 Minor Source Operating Permit Program.

Note:
The Company is considered a major source for Nitrogen Oxides (NO_x) (>25 TPY, Lake & Porter Counties), however, the source is currently exempt from the requirements of the Title V Operation Permits program due to the NO_x requirement waiver (Section 182(f) of the Clean Air Act) which increased the major stationary source threshold level for Nitrogen Oxides NO_x in severe ozone non-attainment areas (Lake and Porter) as defined in 326 IAC 2-7-1(22)(C)(i)(CC) from 25 tons per year to 100 tons per year.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1999 OAM emission data.

Pollutant	Actual Emissions (tons/year)
PM	0.737
PM-10	0.736
SO_2	0.058
VOC	0.612
CO	8.064
NO_x	11.096
Lead	0.000

No previous emission data has been received from the source for the new Screw Hearth Line which includes one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace.

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

	Limited Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
Pangborn Mechanical Coil Descaler	13.775	0	0	0	0	0	0
No. 3 Roller Hearth Furnace	0.2536	0.2536	0.0200	0.2848	2.8032	5.5271	0
4-Wire Bay Space Heaters	0.0654	0.0654	0.0052	0.0490	0.7227	0.8604	0
Wheelabrators No. 1 (East) & No. 2 (West) Shot Blasting Operation	0	0.0876	0	0	0	0	0
No. 11 Furnace	0	4.1172	0	0	0	0	0
Mammoth Space Heater - East	0.0507	0.0507	0.0040	0.0380	0.5606	0.6674	0
Mammoth Space Heater - West	0.0507	0.0507	0.0040	0.0380	0.5606	0.6674	0
Three (3) Bldg. 70 Space Heaters	0.0634	0.0634	0.0050	0.0476	0.7008	0.8343	0
Two (2) Bldg. 60 Dayton Space Heaters	0.0634	0.0634	0.0050	0.0476	0.7008	0.8343	0
Nine (9) Space Heat Units	0.1574	0.1574	0.0124	0.1181	1.7397	2.0711	0
*Hardening Furnace	0.5435	0.5435	0.0429	0.4148	6.0076	7.1519	0
*Tempering Furnace	0.3937	0.3937	0.0311	0.3005	4.3520	5.1809	0
*Reservoir Tank Furnace	0.0317	0.0317	0.0025	0.0242	0.3504	0.4171	0
Coil Drawing Line No. 5	4.2635	0	0	0	0	0	0
Cold Finished Steel Bars from Hot Rolled Bar Process	1.5217	1.5217	0.1201	1.1413	16.8192	20.0229	0.0001
Total Emissions	21.2337	7.4000	0.2522	2.5039	35.3176	44.2348	0.0001

This table shows the allowable emissions for each pollutant for each facility, including the new *Screw Hearth Line which includes one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace. These allowable emissions are either from 326 IAC 6-1-2(a), 326 IAC 6-1-10.1(d) or the Hammond Air Quality Control Ordinance No. 3522 (as amended).

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	Moderate Nonattainment
SO_2	Primary Nonattainment
NO_2	Unclassifiable/Attainment
Ozone	Severe Nonattainment
CO	Unclassifiable/Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(b) Lake County has been classified as nonattainment for particulate matter less than 10 microns (PM-10), sulfur dioxide (SO_2), and ozone. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	2.274
PM10	2.269
SO_2	0.176
VOC	1.764
CO	24.608
NO_x	31.485

This table shows potential emissions (after controls) at 8760 for the entire source prior to the addition of the new Screw Hearth Line.

Pollutant	Emissions (ton/yr)
PM	3.243
PM10	3.238
SO_2	0.252
VOC	2.504
CO	35.318
NO_x	44.235

This table shows potential emissions (after controls) at 8760 for the entire source including the new Screw Hearth Line.

(a) This existing source is a major stationary source because at least one nonattainment regulated pollutant, nitrogen oxide (NOx) is emitted at a rate of twenty-five (25) tons per year or greater.

(b) These emissions were based on information obtained from the source's 1999 emission statement submitted on April 14, 2000.

Proposed Modification

PTE from the proposed modification (based on 8,760 hours of operation per year at rated capacity including enforceable emission control and production limit, where applicable):

Pollutant	PM (ton/yr)	PM10 (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)
Proposed Modification	0.9689	0.9689	0.0765	0.7395	10.7100	12.7499
Contemp. Increase - ThermoPak Boiler	0.0443	0.0443	0.0089	0.0783	0.2956	1.4782
Contemp. Increase - Coil Drawing Line #5	1.0146	1.2054	0.0000	0.0000	0.0000	0.0000
Contemp. Increase - Add 4th Wire Bay Space Heater	0.0040	0.0040	0.0010	0.0080	0.0290	0.1460
Contemp. Increase - Add Dravo Space Heater to Bldg. 70	0.0098	0.0098	0.0019	0.0174	0.0657	0.3258
Contemp. Increase - Nine (9) Space Heat Units	0.2610	0.2610	0.0130	0.1261	0.4567	2.1747
Contemp. Increase - Mod. No. 11 Furnace control device	0.0225	0.0202	0.0000	0.0000	0.0000	0.0000
Contemp. Decrease - Eliminate ThermoPak Boilers No. 1 & 2	0.2610	0.2610	0.0130	0.1261	0.4567	2.1747
Net Emissions	2.0641	2.2526	0.0883	0.8432	11.1003	14.6999
PSD or Offset Significant Level	25	15	40	25	100	25

(a) This source is major for oxides of nitrogen (NOx) because NOx emissions are greater than 25 tons per year. This modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

(b) This source is not major for carbon monoxide (CO), therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than 100 tons per year and VOCs (Lake County) are less than 25 tons per year.
(b) of Nitrogen Oxides (NOx) is equal to or greater than twenty-five (25) tons per year.

Therefore, this existing source is considered a major source for Nitrogen Oxides (NO_x) (>25 TPY, Lake & Porter Counties), however, the source is currently exempt from the requirements of the Title V Operation Permits program due to the NO_x requirement waiver (Section 182(f) of the Clean Air Act) which increased the major stationary source threshold level for NO_x in severe ozone non-attainment areas (Lake and Porter) as defined in 326 IAC 2-7-1(22)(C)(i)(CC) from 25 tons per year to 100 tons per year.

This status is based on all the air approvals issued to the source. This status has been verified by HDEM.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR art 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source has submitted a Preventive Maintenance Plan (PMP) on April 8, 1997. This PMP has been verified to fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of NOx in Lake County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15th of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

The source is in compliance with the required emission statement submittals.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) any one- (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

No violations of the opacity standards have been observed at this source.

326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to the requirements of 326 IAC 6-4 because the rule applies to all sources of fugitive dust. Pursuant to the applicability requirements (326 IAC 6-4-1), "fugitive dust" means the generation of particulate matter to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located. The source shall be considered in violation of this rule if the opacity of fugitive particulate emissions exceeds ten percent (10%).

No violations have been observed at this source.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

The proposed Screw Hearth Line is subject to the requirements of 326 IAC 6-5 because the proposed new construction must obtain a permit pursuant to 326 IAC 2 since it has not received construction approval before December 13, 1985. However, the HDEM shall exempt the source from the fugitive control plan pursuant to 326 IAC 6-5-3(b) because the proposed construction will not have material delivery or handling systems that would generate fugitive emissions and 90% of all plant roads consist of paved asphalt. The remaining 10% consists of unpaved stone. The controlling of any dust from the unpaved area will be controlled by wetting the area with water per the source's permit application.

State Rule Applicability - Individual Facilities

326 IAC 6-1-2(a) (Nonattainment Area Particulate Limitations)

Pursuant to 326 IAC 6-1-2(a) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the Pangborn Mechanical Coil Descaler shall be limited to 0.03 grain per dry standard cubic foot.

Pursuant to 326 IAC 6-1-2(a) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the Coil Drawing Line No. 5 shall be limited to 0.03 grain per dry standard cubic foot.

Compliance with these limitations can be shown by the use of control equipment.

326 IAC 6-1-10.1 (Lake County PM10 emission requirements)

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions from the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation shall be limited to 0.001 lbs/ton and 0.020 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions from the No. 11 Furnace shall be limited to 0.548 lbs/ton and 0.940 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

Compliance with these limitations can be shown by the use of control equipment.

Local Rule Applicability

Hammond Air Quality Control Ordinance No. 3522 (as amended)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO2), Volatile Organic Compound (VOC), Carbon Monoxide (CO), and Nitrogen Oxide (NOx).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Construction Permit Application Form Y.

None of the listed air toxics will be emitted from this source.

Conclusion

The construction and operation of this cold finishing of steel shapes operation shall be subject to the conditions of the attached proposed **New Source Construction and Minor Source Operating Permit 089-11518-00220.**

Appendix A: Source Emissions Calculations

LaSalle Steel Company
1412 - 150th Street
Hammond, IN 46327-1799

PLANT ID NO: 0220
INSP DATE: 5/9/00
CALC DATE: 4/28/00

CALCULATIONS BY: Kristina Hansen
MODIFIED BY: Debra Malone (9/19/00)

YEAR OF DATA: MSOP/1999

NO. OF POINTS: 15

NOTES
EF: EMISSION FACTOR
CE: CONTROL EFFICIENCY
MDR: MAXIMUM DESIGN RATE
MDC: MAXIMUM DESIGN CAPACITY
Ts: STACK DISCHARGE TEMPERATURE
UNITS FOR EMISSIONS ARE IN (TPY) EXCEPT WHERE GIVEN

****

PT 2; SGMT 1 **(S-2)**
Pangborn Mechanical Coil Descaler
CNTRL DEV: Tenkay-Farr and Riga-Flo

MDR (T/hr): 0.07
YEARLY PROD (T/yr): 154

STACK ID (DIAM:HEIGHT): (2.9': 30')
FLOWRATE (ACFM): 13500
Ts(°F): 125

PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						**ALLOWABLE**		**COMPANY ACTUAL**	
SCC NO. 3-09-002-05			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	8	0.999	0.5600	13.4400	**2.4528**	0.000560	0.002453	0.0000	3.145055	13.7753	0.616000	0.000616
PM10	6.88	0.999	0.4816	11.5584	**2.1094**	0.000482	0.002109	0.0000	0	0.0000	0.529760	0.000530
SOx	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
NOx	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
VOC	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
CO	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000

326 IAC 6-1-2 (a) - 0.03 gr/dscf

EF = lbs/T of Abrasive used, MDR = T/hr of Abrasive used, Yearly Prod = T/yr Abrasive used.

PT 3; SGMT 1 **(S-3)** MDR (T/hr): 5 STACK ID (DIAM:HEIGHT): (2': 50')

No. 3 Roller Hearth Furnace YEARLY PROD (T/yr): 29,921 FLOWRATE (ACFM): 2622

CNTRL DEV: NONE Ts(°F): 120

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-03-009-34

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	0.0000	0	0.0000	0.0000	0.00000
PM10	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	0.0000	0	0.0000	0.0000	0.00000
SOx	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
NOx	0.1	0	0.5000	12.0000	**2.1900**	0.50000	2.19000	N/A	0.50000	2.1900	1.4961	1.49605
VOC	0.00432	0	0.0216	0.5184	**0.0946**	0.02160	0.09461	N/A	0.02160	0.0946	0.0646	0.06463
CO	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 3; SGMT 2 **(S-3)** MDC (mmBtu/hr): 8 HEAT CONTENT (Btu/cft): 1050 STACK ID (DIAM:HEIGHT): (2': 50')

No. 3 Roller Hearth Furnace MDR (mmcft/hr): 0.0076 QTY BURNED (mmcft/yr): 58.00 FLOWRATE (ACFM): 2622

(Natural Gas Combustion) Ts(°F): 120

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 1-02-006-02

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0579	1.3897	**0.2536**	0.0579	0.2536	0.0028	0.0579	0.2536	0.2204	0.2204
PM10	7.6	0	0.0579	1.3897	**0.2536**	0.0579	0.2536	0.0028	0.0579	0.2536	0.2204	0.2204
SOx	0.6	0	0.0046	0.1097	**0.0200**	0.0046	0.0200	N/A	0.0046	0.0200	0.0174	0.0174
NOx	100	0	0.7619	18.2857	**3.3371**	0.7619	3.3371	N/A	0.7619	3.3371	2.9000	2.9000
VOC	5.7	0	0.0434	1.0423	**0.1902**	0.0434	0.1902	N/A	0.0434	0.1902	0.1653	0.1653
CO	84	0	0.6400	15.3600	**2.8032**	0.6400	2.8032	N/A	0.6400	2.8032	2.4360	2.4360
LEAD	0.0005	0	0.0000	0.0001	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 4; SGMT 1 **(S-4)** MDC (mmBtu/hr): 2.0625 HEAT CONTENT (Btu/cft): 1050 STACK ID (DIAM:HEIGHT): (0.75': 60')

Four (4) Wire Bay Space Heaters MDR (mmcft/hr): 0.0020 QTY BURNED (mmcft/yr): 2.00 FLOWRATE (ACFM): 12162

(Natural Gas Combustion) Ts(°F): 90

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-05-001-06			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0149	0.3583	**0.0654**	0.0149	0.0654	0.0001	0.0149	0.0654	0.0076	0.0076
PM10	7.6	0	0.0149	0.3583	**0.0654**	0.0149	0.0654	0.0001	0.0149	0.0654	0.0076	0.0076
SOx	0.6	0	0.0012	0.0283	**0.0052**	0.0012	0.0052	N/A	0.0012	0.0052	0.0006	0.0006
NOx	100	0	0.1964	4.7143	**0.8604**	0.1964	0.8604	N/A	0.1964	0.8604	0.1000	0.1000
VOC	5.7	0	0.0112	0.2687	**0.0490**	0.0112	0.0490	N/A	0.0112	0.0490	0.0057	0.0057
CO	84	0	0.1650	3.9600	**0.7227**	0.1650	0.7227	N/A	0.1650	0.7227	0.0840	0.0840
LEAD	0.0005	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 5; SGMT 1 **(S-5)** MDR (T/hr): 0.14 STACK ID (DIAM:HEIGHT): (2': 45')

Wheelabrator Shot Blasting Operations YEARLY PROD (T/yr): 198 FLOWRATE (ACFM): 15000

East #1 and West #2 Ts(°F): 87

CNTRL DEV: Mikropul Horizontal PERMITTED OPERATING HRS: **8760** hr/yr

Cartridge Filter System

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-09-002-05			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	8	0.9999	1.1200	26.8800	**4.9056**	0.00011	0.00049	0.0000	0	0.0000	0.7920	0.00008
PM10	6.88	0.9999	0.9632	23.1168	**4.2188**	0.00010	0.00042	0.0000	0.020	0.0876	0.6811	0.00007
SOx	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
NOx	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
VOC	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
CO	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000

326 IAC 6-1-10.1(d)

PT 6; SGMT 1 **(S-6)** MDR (T/hr): 1.7085 STACK ID (DIAM:HEIGHT): (2.5': 33')

#11 Induction Furnace YEARLY PROD (T/yr): 2332 FLOWRATE (ACFM): 7000

CNTRL DEV: Uni-wash Dust Collector PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-04-007-05			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.1	0.94	0.1709	4.1004	**0.7483**	0.01025	0.04490	0.0001	0	0.0000	0.1166	0.00700
PM10	0.09	0.94	0.1538	3.6904	**0.6735**	0.00923	0.04041	0.0001	0.940	4.1172	0.1049	0.00630
SOx	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
NOx	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
VOC	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
CO	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.00000	0.00000	N/A	0	0.0000	0.0000	0.00000

326 IAC 6-1-10.1(d)

PT 7; SGMT 1 **(S-7)** MDC (mmBtu/hr): 1.6 HEAT CONTENT (Btu/cft): 1050 STACK ID (DIAM:HEIGHT): (1.5': 65')

Mammoth Space Heater East MDR (mmcft/hr): 0.0015 QTY BURNED (mmcft/yr): 2.00 FLOWRATE (ACFM): 393

(Natural Gas Combustion) Ts(°F): 120

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-05-001-06			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0116	0.2779	**0.0507**	0.0116	0.0507	0.0038	0.0116	0.0507	0.0076	0.0076
PM10	7.6	0	0.0116	0.2779	**0.0507**	0.0116	0.0507	0.0038	0.0116	0.0507	0.0076	0.0076
SOx	0.6	0	0.0009	0.0219	**0.0040**	0.0009	0.0040	N/A	0.0009	0.0040	0.0006	0.0006
NOx	100	0	0.1524	3.6571	**0.6674**	0.1524	0.6674	N/A	0.1524	0.6674	0.1000	0.1000
VOC	5.7	0	0.0087	0.2085	**0.0380**	0.0087	0.0380	N/A	0.0087	0.0380	0.0057	0.0057
CO	84	0	0.1280	3.0720	**0.5606**	0.1280	0.5606	N/A	0.1280	0.5606	0.0840	0.0840
LEAD	0.0005	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 8; SGMT 1 **(S-8)** MDC (mmBtu/hr): 1.6 HEAT CONTENT (Btu/cft): 1050 STACK ID (DIAM:HEIGHT): (1.5': 65')

Mammoth Space Heater West MDR (mmcft/hr): 0.0015 QTY BURNED (mmcft/yr): 2.00 FLOWRATE (ACFM): 393

(Natural Gas Combustion) Ts(°F): 120

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						**ALLOWABLE**		**COMPANY ACTUAL**	
SCC NO. 1-05-001-06			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0116	0.2779	**0.0507**	0.0116	0.0507	0.0038	0.0116	0.0507	0.0076	0.0076
PM10	7.6	0	0.0116	0.2779	**0.0507**	0.0116	0.0507	0.0038	0.0116	0.0507	0.0076	0.0076
SOx	0.6	0	0.0009	0.0219	**0.0040**	0.0009	0.0040	N/A	0.0009	0.0040	0.0006	0.0006
NOx	100	0	0.1524	3.6571	**0.6674**	0.1524	0.6674	N/A	0.1524	0.6674	0.1000	0.1000
VOC	5.7	0	0.0087	0.2085	**0.0380**	0.0087	0.0380	N/A	0.0087	0.0380	0.0057	0.0057
CO	84	0	0.1280	3.0720	**0.5606**	0.1280	0.5606	N/A	0.1280	0.5606	0.0840	0.0840
LEAD	0.0005	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 9; SGMT 1 **(S-9)** MDC (mmBtu/hr): 2 HEAT CONTENT (Btu/cft): 1050

Three (3) Building 70 Space Heaters MDR (mmcft/hr): 0.0019 QTY BURNED (mmcft/yr): 1.00

(Natural Gas Combustion) Ts(°F): 120

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						**ALLOWABLE**		**COMPANY ACTUAL**	
SCC NO. 1-05-001-06			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0145	0.3474	**0.0634**	0.0145	0.0634	N/A	0.0145	0.0634	0.0038	0.0038
PM10	7.6	0	0.0145	0.3474	**0.0634**	0.0145	0.0634	N/A	0.0145	0.0634	0.0038	0.0038
SOx	0.6	0	0.0011	0.0274	**0.0050**	0.0011	0.0050	N/A	0.0011	0.0050	0.0003	0.0003
NOx	100	0	0.1905	4.5714	**0.8343**	0.1905	0.8343	N/A	0.1905	0.8343	0.0500	0.0500
VOC	5.7	0	0.0109	0.2606	**0.0476**	0.0109	0.0476	N/A	0.0109	0.0476	0.0029	0.0029
CO	84	0	0.1600	3.8400	**0.7008**	0.1600	0.7008	N/A	0.1600	0.7008	0.0420	0.0420
LEAD	0.0005	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 10; SGMT 1 **(S-10)** MDC (mmBtu/hr): 2 HEAT CONTENT (Btu/cft): 1050

Two (2) Building 60 Space Heaters MDR (mmcft/hr): 0.0019 QTY BURNED (mmcft/yr): 1.00

(Natural Gas Combustion) Ts(°F): 120

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-05-001-06			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0145	0.3474	**0.0634**	0.0145	0.0634	N/A	0.0145	0.0634	0.0038	0.0038
PM10	7.6	0	0.0145	0.3474	**0.0634**	0.0145	0.0634	N/A	0.0145	0.0634	0.0038	0.0038
SOx	0.6	0	0.0011	0.0274	**0.0050**	0.0011	0.0050	N/A	0.0011	0.0050	0.0003	0.0003
NOx	100	0	0.1905	4.5714	**0.8343**	0.1905	0.8343	N/A	0.1905	0.8343	0.0500	0.0500
VOC	5.7	0	0.0109	0.2606	**0.0476**	0.0109	0.0476	N/A	0.0109	0.0476	0.0029	0.0029
CO	84	0	0.1600	3.8400	**0.7008**	0.1600	0.7008	N/A	0.1600	0.7008	0.0420	0.0420
LEAD	0.0005	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 11; SGMT 1 **(S-0)** MDC (mmBtu/hr): 48 HEAT CONTENT (Btu/cft): 1050

Cold Finished Steel Bars from Hot Rolled Bar Process MDR (mmcft/hr): 0.0457 QTY BURNED (mmcft/yr): 125.00

Ts(°F): 75

(Natural Gas Combustion) PERMITTED OPERATING HRS: **8760** hr/yr

CNTRL DEV: NONE

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-02-006-02			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.3474	8.3383	**1.5217**	0.3474	1.5217	N/A	0.3474	1.5217	0.4750	0.4750
PM10	7.6	0	0.3474	8.3383	**1.5217**	0.3474	1.5217	N/A	0.3474	1.5217	0.4750	0.4750
SOx	0.6	0	0.0274	0.6583	**0.1201**	0.0274	0.1201	N/A	0.0274	0.1201	0.0375	0.0375
NOx	100	0	4.5714	109.7143	**20.0229**	4.5714	20.0229	N/A	4.5714	20.0229	6.2500	6.2500
VOC	5.7	0	0.2606	6.2537	**1.1413**	0.2606	1.1413	N/A	0.2606	1.1413	0.3563	0.3563
CO	84	0	3.8400	92.1600	**16.8192**	3.8400	16.8192	N/A	3.8400	16.8192	5.2500	5.2500
LEAD	0.0005	0	0.0000	0.0005	**0.0001**	0.0000	0.0001	N/A	0.0000	0.0001	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

includes Roller Hearth Furnaces #1 and #2 and Kemp Bar Heating Furnaces #3 and #7

Quantity Burned = (MDR) x (two thirds of 8760) x (30% average of capacity) = Two shifts per day @ average capacity

PT 12; SGMT 1 **(S-11)** MDC (mmBtu/hr): 4.965 HEAT CONTENT (Btu/cft): 1050

Nine (9) Space Heat Units MDR (mmcft/hr): 0.0047 QTY BURNED (mmcft/yr): 1.00

(Natural Gas Combustion) Ts(°F): 110

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-05-002-06			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0359	0.8625	**0.1574**	0.0359	0.1574	N/A	0.0359	0.1574	0.0038	0.0038
PM10	7.6	0	0.0359	0.8625	**0.1574**	0.0359	0.1574	N/A	0.0359	0.1574	0.0038	0.0038
SOx	0.6	0	0.0028	0.0681	**0.0124**	0.0028	0.0124	N/A	0.0028	0.0124	0.0003	0.0003
NOx	100	0	0.4729	11.3486	**2.0711**	0.4729	2.0711	N/A	0.4729	2.0711	0.0500	0.0500
VOC	5.7	0	0.0270	0.6469	**0.1181**	0.0270	0.1181	N/A	0.0270	0.1181	0.0029	0.0029
CO	84	0	0.3972	9.5328	**1.7397**	0.3972	1.7397	N/A	0.3972	1.7397	0.0420	0.0420
LEAD	0.0005	0	0.0000	0.0001	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 13; SGMT 1 **(S-12)** MDC (mmBtu/hr): 17.145 HEAT CONTENT (Btu/cft): 1050

Hardening Furnace* MDR (mmcft/hr): 0.0163 QTY BURNED (mmcft/yr): 0.00

(Natural Gas Combustion) Ts(°F): 75

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-02-006-02			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.1241	2.9783	**0.5435**	0.1241	0.5435	N/A	0.1241	0.5435	0.0000	0.0000
PM10	7.6	0	0.1241	2.9783	**0.5435**	0.1241	0.5435	N/A	0.1241	0.5435	0.0000	0.0000
SOx	0.6	0	0.0098	0.2351	**0.0429**	0.0098	0.0429	N/A	0.0098	0.0429	0.0000	0.0000
NOx	100	0	1.6329	39.1886	**7.1519**	1.6329	7.1519	N/A	1.6329	7.1519	0.0000	0.0000
VOC	5.8	0	0.0947	2.2729	**0.4148**	0.0947	0.4148	N/A	0.0947	0.4148	0.0000	0.0000
CO	84	0	1.3716	32.9184	**6.0076**	1.3716	6.0076	N/A	1.3716	6.0076	0.0000	0.0000
LEAD	0.0005	0	0.0000	0.0002	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

*Part of the Screw Hearth Line

Hammond Air Quality Control Ordinance No. 3522 (as amended)

PT 14; SGMT 1 **(S-13)**** MDC (mmBtu/hr): 12.42 HEAT CONTENT (Btu/cft): 1050

Tempering Furnace* MDR (mmcft/hr): 0.0118 QTY BURNED (mmcft/yr): 0.00

(Natural Gas Combustion) Ts(°F): 75

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-02-006-02			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0899	2.1575	**0.3937**	0.0899	0.3937	N/A	0.0899	0.3937	0.0000	0.0000
PM10	7.6	0	0.0899	2.1575	**0.3937**	0.0899	0.3937	N/A	0.0899	0.3937	0.0000	0.0000
SOx	0.6	0	0.0071	0.1703	**0.0311**	0.0071	0.0311	N/A	0.0071	0.0311	0.0000	0.0000
NOx	100	0	1.1829	28.3886	**5.1809**	1.1829	5.1809	N/A	1.1829	5.1809	0.0000	0.0000
VOC	5.8	0	0.0686	1.6465	**0.3005**	0.0686	0.3005	N/A	0.0686	0.3005	0.0000	0.0000
CO	84	0	0.9936	23.8464	**4.3520**	0.9936	4.3520	N/A	0.9936	4.3520	0.0000	0.0000
LEAD	0.0005	0	0.0000	0.0001	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

*Part of the Screw Hearth Line Hammond Air Quality Control Ordinance No. 3522 (as amended)

**Stack S-14 exhausts into Stack S-13.

PT 15; SGMT 1 **(S-14)**** MDC (mmBtu/hr): 1 HEAT CONTENT (Btu/cft): 1050

Reservoir Tank Furnace* MDR (mmcft/hr): 0.0010 QTY BURNED (mmcft/yr): 0.00

(Natural Gas Combustion) Ts(°F): 75

CNTRL DEV: NONE PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 1-02-006-02			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	7.6	0	0.0072	0.1737	**0.0317**	0.0072	0.0317	N/A	0.0072	0.0317	0.0000	0.0000
PM10	7.6	0	0.0072	0.1737	**0.0317**	0.0072	0.0317	N/A	0.0072	0.0317	0.0000	0.0000
SOx	0.6	0	0.0006	0.0137	**0.0025**	0.0006	0.0025	N/A	0.0006	0.0025	0.0000	0.0000
NOx	100	0	0.0952	2.2857	**0.4171**	0.0952	0.4171	N/A	0.0952	0.4171	0.0000	0.0000
VOC	5.8	0	0.0055	0.1326	**0.0242**	0.0055	0.0242	N/A	0.0055	0.0242	0.0000	0.0000
CO	84	0	0.0800	1.9200	**0.3504**	0.0800	0.3504	N/A	0.0800	0.3504	0.0000	0.0000
LEAD	0.0005	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.0000	0.0000	0.0000	0.0000

*Part of the Screw Hearth Line Hammond Air Quality Control Ordinance No. 3522 (as amended)

**Stack S-14 exhausts into Stack S-13.

PT 16; SGMT 1 **(S-15)** MDR (T/hr): 0.04 STACK ID (DIAM:HEIGHT): (1.5': 32.5')

Coil Drawing Line No. 5 YEARLY PROD (T/yr): 0 FLOWRATE (ACFM): 4414

CNTRL DEV: Torit Cartridge-Type Dust Collector Ts(°F): 158

PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-09-002-05			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	8	0.9999	0.3200	7.6800	**1.4016**	0.000032	0.000140	0.0000	0.9734	4.2635	0.000000	0.000000
PM10	6.88	0.9999	0.2752	6.6048	**1.2054**	0.000028	0.000121	0.0000	0	0.0000	0.000000	0.000000
SOx	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
NOx	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
VOC	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
CO	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.000000	0.000000	N/A	0	0.0000	0.000000	0.000000

EF = lbs/T of Abrasive used, MDR = T/hr of Abrasive used, Yearly Prod = T/yr Abrasive used. 326 IAC 6-1-2 (a) - 0.03 gr/dscf

EF = (Air Quality Permits, Table 3-2) = 0.004 lbs PM/lb Abrasive for Steel Shot; 0.86 lb PM10/lb PM.

MDR = 160 tons/yr of shots used at 16 hr/day; 5 day/wk; 50 wk/yr: 0.04 tons/hr of steel shots used.

SOURCE TOTALS:

	POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
	BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	2.9004	69.6095	12.7037	0.740501	3.243393	#VALUE!	4.8480	21.2343	2.254200	0.737291
PM10	2.6033	62.4795	11.4025	0.739377	3.238471	#VALUE!	1.6895	7.4002	2.045420	0.736494
SOx	0.0576	1.3823	0.2523	0.057596	0.252269	#VALUE!	0.0576	0.2523	0.057600	0.057600
NOx	10.0993	242.3829	44.2349	10.099286	44.234871	#VALUE!	10.0993	44.2349	11.096050	11.096050
VOC	0.5717	13.7201	2.5039	0.571670	2.503916	#VALUE!	0.5717	2.5039	0.611829	0.611829
CO	8.0634	193.5216	35.3177	8.063400	35.317692	#VALUE!	8.0634	35.3177	8.064000	8.064000
LEAD	0.0000	0.0012	0.0002	0.000048	0.000210	#VALUE!	0.0000	0.0002	0.000048	0.000048

*THIS PLANT IS CLASS "Major" ACCORDING TO THE POTENTIAL EMISSIONS.